

04-NOV-09
12:10:08

GEORGIA DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION - OFFICE OF BRIDGE & STRUCTURAL DESIGN
LIVE LOAD CASE PROGRAM
REVISED: JUNE 26, 2008

PROB. NO. LL01

32.00' CURB-TO-CURB; 5 BEAMS; 103.80' AVERAGE SPAN

BRIDGE WIDTH	X1	X2	CENTER LINE DISTANCE	# OF BEAMS	REACTION FORCE	MAXIMUM # OF TRUCKS	# OF COLUMNS	COLUMN WIDTH	SKEW ANGLE
35.250	3.625	3.625	17.625	5	56.522	2	1	8.000	0

D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.625	7.000	7.000	7.000	7.000															

XCOL1	XCOL2	XCOL3	XCOL4	XCOL5
17.625				

LIVE LOAD CASE # 1 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1429	64.597
2	0.8571	48.447
3	0.0000	0.000
4	0.0000	0.000
5	0.0000	0.000

LIVE LOAD CASE # 2 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1429	64.597
2	1.4286	80.746
3	1.1429	64.597
4	0.2857	16.149
5	0.0000	0.000

LIVE LOAD CASE # 3 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.0000	0.000
4	0.8571	48.447
5	1.1429	64.597

LIVE LOAD CASE # 4 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000

2	0.2857	16.149
3	1.1429	64.597
4	1.4286	80.746
5	1.1429	64.597

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LIVE LOAD CASE # 5 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.4286	24.224
3	1.1429	64.597
4	0.4286	24.224
5	0.0000	0.000

LIVE LOAD CASE # 6 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.8571	48.447
2	1.5714	88.820
3	1.1429	64.597
4	0.4286	24.224
5	0.0000	0.000

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LIVE LOAD CASE # 7 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.1429	8.075
2	1.1429	64.597
3	1.4286	80.746
4	1.1429	64.597
5	0.1429	8.075

LIVE LOAD CASE # 8 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1429	64.597
2	0.8571	48.447
3	0.0000	0.000
4	0.8571	48.447
5	1.1429	64.597

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GEORGIA DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION - OFFICE OF BRIDGE & STRUCTURAL DESIGN
SUMMARY OF THE LIVE LOAD CASE PROGRAM
REVISED: JUNE 26, 2008

PROB. NO. LL01

32.00' CURB-TO-CURB; 5 BEAMS; 103.80' AVERAGE SPAN

BRIDGE WIDTH	X1	X2	CENTER LINE DISTANCE	# OF BEAMS	REACTION FORCE	MAXIMUM # OF TRUCKS	# OF COLUMNS	COLUMN WIDTH	SKEW ANGLE
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35.250 3.625 3.625 17.625 5 56.522 LL-32-5-104.OUT
 2 1 8.000 0
 D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13 D14 D15 D16 D17 D18 D19 D20
 3.625 7.000 7.000 7.000 7.000

XCOL1 XCOL2 XCOL3 XCOL4 XCOL5
 17.625

		NO. OF TRUCKS	BEAM 1	BEAM 2	BEAM 3	BEAM 4	BEAM 5	BEAM 6	BEAM 7	BEAM 8	BEAM 9	BEAM 10
LL CASE	1	1	64.597	48.447	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	2	2	64.597	80.746	64.597	16.149	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	3	1	0.000	0.000	0.000	48.447	64.597	0.000	0.000	0.000	0.000	0.000
LL CASE	4	2	0.000	16.149	64.597	80.746	64.597	0.000	0.000	0.000	0.000	0.000
LL CASE	5	1	0.000	24.224	64.597	24.224	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	6	2	48.447	88.820	64.597	24.224	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	7	2	8.075	64.597	80.746	64.597	8.075	0.000	0.000	0.000	0.000	0.000
LL CASE	8	2	64.597	48.447	0.000	48.447	64.597	0.000	0.000	0.000	0.000	0.000

FOR PIER PROGRAM INPUT

6111	1	1	64596	48447	0	0	0	0	0
6111	2	2	64596	80745	0	64596	0	16149	0
6111	3	1	0	0	0	0	48447	64596	0
6111	4	2	0	16149	0	64596	0	80745	64596
6111	5	1	0	24223	0	64596	0	24223	0
6111	6	2	48447	88820	0	64596	0	24223	0
6111	7	2	8074	64596	0	80745	0	64596	8074
6111	8	2	64596	48447	0	0	0	48447	64596